



Main

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|-------------------------------|--|
| Range of product | Telemecanique Ultrasonic sensors XX |
| Sensor type | Ultrasonic sensor |
| Series name | General purpose |
| Sensor name | XX7 |
| Sensor design | Flat form 18 x 33 x 60 + cylindrical M18 |
| Detection system | Diffuse |
| [Sn] nominal sensing distance | 0.5 m adjustable with remote teach push-button |
| Material | Plastic |
| Type of output signal | Discrete |
| Discrete output function | 1 NO |
| Wiring technique | 3-wire |
| Discrete output type | PNP |
| [Us] rated supply voltage | 12...24 V DC with reverse polarity protection |
| Electrical connection | Male connector M12 4 pins |
| [Sd] sensing range | 0.051...0.508 m |
| Beam angle | 12 ° |
| IP degree of protection | IP67 conforming to IEC 60529 |

Complementary

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|---------------------------------|--|
| Enclosure material | Valox |
| Front material | Epoxy |
| Supply voltage limits | 10...28 V DC |
| [Sa] assured operating distance | 0.051...0.508 m (teach mode) |
| Maximum differential travel | 2.5 mm |
| Blind zone | 0...51 mm |
| Transmission frequency | 300 kHz |
| Repeat accuracy | 1.27 % |
| Minimum size of detected object | Cylinder diameter 2.5 mm at 0.15 m Flat bar 1 mm wide at 0.15 m |
| Status LED | Supply on: 1 LED (green) Output state: 1 LED (yellow) |
| Current consumption | 40 mA |
| Maximum switching current | 100 mA |
| Maximum voltage drop | 1 V |
| Switching frequency | <= 40 Hz |
| Maximum delay first up | 100 ms |
| Maximum delay response | 10 ms |
| Maximum delay recovery | 10 ms |
| Marking | CE |
| Height | 44 mm |
| Width | 18 mm |
| Depth | 60 mm |



Environment

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|---------------------------------------|--|
| Standards | IEC 60947-5-2 |
| Product certifications | UL |
| Ambient air temperature for operation | -20...65 °C |
| Ambient air temperature for storage | -40...80 °C |
| Vibration resistance | +/-1 mm conforming to IEC 60068-2-6 (f = 10...55 Hz) |
| Shock resistance | 30 gn in all 3 axes for 11 ms conforming to IEC 60068-2-27 |
| Resistance to electrostatic discharge | 8 kV level 4 conforming to IEC 61000-4-2 |
| Resistance to electromagnetic fields | 10 V/m level 3 conforming to IEC 61000-4-3 |
| Resistance to fast transients | 1 kV level 3 conforming to IEC 61000-4-4 |

Packing Units

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|------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.0 cm |
| Package 1 Width | 8.5 cm |
| Package 1 Length | 8.7 cm |
| Package 1 Weight | 60.0 g |
| Unit Type of Package 2 | S01 |
| Number of Units in Package 2 | 15 |
| Package 2 Height | 15 cm |
| Package 2 Width | 15 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 1.17 kg |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 30 |
| Package 3 Height | 15 cm |
| Package 3 Width | 30 cm |
| Package 3 Length | 40 cm |
| Package 3 Weight | 2.238 kg |

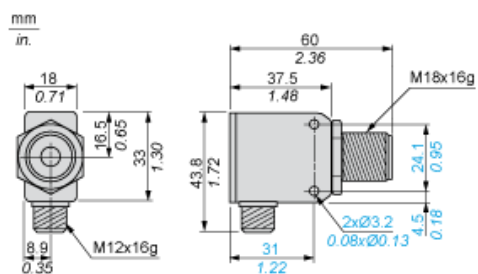
Offer Sustainability

| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| Mercury free | Yes |
| RoHS exemption information |  Yes |

Contractual warranty

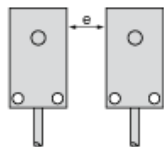
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|----------|-----------|
| Warranty | 18 months |
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Dimensions



Minimum Mounting Distances

Side by side

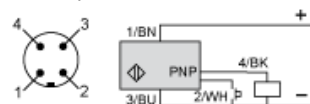


e : respect the distances indicated on the detection curves

Wiring Diagram

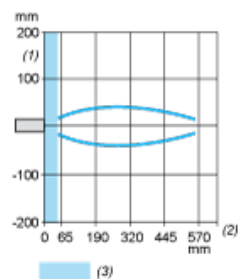
3-Wire Type

NO outputs, PNP



- (1) (+)
- (2) Teach input (WH)
- (3) (-)
- (4) Output
- BN Brown
- WH White
- BU Blue
- BK Black

Curves



- (1) Parallel movement
- (2) Distance
- (3) Blind zone for diffuse sensors.